

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Applicant:** Mikio Oda, et al.

**Docket:** 14356Z

**Serial No.:** Unassigned

**Group Art Unit:** Unassigned

**Filed:** Herewith

**Dated:** October 8, 2003

**For:** OPTICAL CIRCUIT IN WHICH FABRICATION IS EASY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

1. Japanese Laid-Open Patent Application No. 59-7916, dated January 17, 1984;
2. Japanese Laid-Open Patent Application No. 7-159658, dated June 23, 1995;

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**CERTIFICATE OF MAILING BY EXPRESS MAIL**

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Date of Deposit: October 8, 2003

I hereby certify that this correspondence is being deposited with the United States Postal Service Express Mail Post Office to Addressee service under 37 C.F.R. §1.10 on the date indicated above and is addressed to the Commissioner for Patents, Box 1450, Alexandria, VA 22313-1450.

Dated: October 8, 2003

  
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Paul J. Esatto, Jr.

3. Japanese Laid-Open Patent Application No. 9-8273, dated January 10, 1997;
4. Japanese Patent No. 2687859, dated August 22, 1997;
5. Masataka Itoh, et al. "Use of AuSn Solder Bumps in Three-Dimensional Passive Aligned Packaging of LD/PD Arrays on Si Optical Benches" 46<sup>th</sup> Electronic Component & Technology Conference, p. 1-7, 1996;
6. J. Mohr, "Moems Fabricated by the Liga Technique-An Overview" p. 221-226.
7. L.Y. Lin, et al., "High-Density Micromachined Polygon Optical Crossconnects Exploiting Network Connection-Symmetry" p.1425-1427, 1998;
8. R. Jebens, et al. "Microactuators for Aligning Optical Fibers" Sensors and Actuators Vol. 20, p. 65-73, 1989;
9. Japanese Laid-Open Patent Publication No. 9-218304, dated August 19, 1997;
10. Japanese Laid-Open Patent Publication No. 2000-121967, dated April 28, 2000;
11. Japanese Laid-Open Patent Publication No. 2000-258704, dated September 22, 2000;
12. Japanese Laid-Open Patent Publication No. 3076465, dated June 9, 2000;
13. Japanese Laid-Open Patent Publication No. 64-59303, dated March 7, 1989;
14. U.S. Patent 5,379,357 dated January 3, 1995 to Sentsui et al.
15. U.S. Patent 6,094,293 dated July 25, 2000 to Yokoyama et al.
16. U.S. Patent 6,283,601 B1 dated September 4, 2001 to Hagelin et al.
17. Japanese Laid Open Patent Application H10-170765 published on June 26, 1998;
18. Japanese Laid Open Patent Application H4-333004 published November 20, 1992;

19. Japanese Laid Open Patent Application H6-84455 published March 25, 1994;
20. Japanese Laid Open Patent Application H9-257811 published October 3, 1997;
21. Hiroyuki Fujita, et al. "Optical MEMS", IEICE Trans. Electron., Vol. E83-C, No. 9, September 2000;
22. U.S. Patent No. 5,717,803 dated February 1998, issued to Yoneda et al.;
23. U.S. Patent No. 5,793,914 dated August 1998, issued to J. Sasaki;
24. U.S. Patent No. 6,504,107 dated January 2003, issued to Hans Kragel;
25. U.S. Patent No. 5,929,500 dated July 1999, issued to Yoneda et al.;
26. U.S. Patent No. 5,492,607 dated February 1996, issued to D. Yap;
27. U.S. Patent No. 5,518,965 dated May 1996, issued to Menigaux et al.;
28. U.S. Patent No. 6,252,252 dated June 2001, issued to Kunii et al.; and
29. U.S. Patent No. 6,417,107 dated July 2002, issued to M. Sekimura.

Pursuant to 37 C.F.R. §1.98 (d), copies of the references listed on the enclosed Form PTO-1449 are not provided since they were previously made record of in the parent application Serial No. 09/796,257 filed on February 28, 2001. References 1-8 were cited in the Information Disclosure Statement filed on February 28, 2001; references 9-12 were cited in the Information Disclosure Statement filed on January 17, 2002; reference 13 was cited in the Information Disclosure Statement filed on January 8, 2003; references 14-16 were cited in the Information Disclosure Statement filed on March 25, 2003; references 17-20 were cited in the Information Disclosure Statement filed on March 27, 2003; reference 21 was cited in the Information Disclosure Statement filed on June 25, 2003; and references 22-29 were cited by the Patent and Trademark Office in the

Notice of Allowance dated June 25, 2003. Consideration of this Information Disclosure Statement is respectfully requested.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. §1.97(b), no statement or fee is required.

Respectfully submitted,



Paul J. Esatto, Jr.  
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PJE/sf  
Enclosure      PTO 1449

**INFORMATION DISCLOSURE CITATION**
*(Use several sheets if necessary)*

ATTY DOCKET NO.

14356Z

SERIAL NO.

**To be assigned**

Mikio Oda, et al.

FILING

Herewith

GROUP

**Unassigned**
**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,379,357	1/3/95	Sentsui et al.			
	6,094,293	7/25/00	Yokoyama et al.			
	6,283,601 B1	9/4/01	Hagelin et al.			
	5,717,803	2/1998	Yoneda et al.			
	5,793,914	8/1998	J. Sasaki			
	6,504,107	1/2003	Hans Kragel			
	5,929,500	7/1999	Yoneda et al.			
	5,492,607	2/1996	D. Yap			
	5,518,965	5/1996	Menigaux et al.			
	6,252,252	6/2001	Kunii et al.			
	6,417,107	7/2002	M. Sekimura			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	9-218304	8/19/1997	JAPAN				
	2000-121967	4/28/2000	JAPAN				
	2000-258704	9/22/2000	JAPAN				
	3076465	6/9/2000	JAPAN				
	64-59303	3/7/1989	JAPAN				

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*


EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)	Docket Number (Optional) 14356Z	Application Number To be assigned
	Applicant(s) Mikio Oda, et al.	
	Filing Date Herewith	Group Art Unit Unassigned

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	H10-170765	6/26/98	JAPAN				
	H4-333004	11/2092	JAPAN				
	H6-84455	3/25/94	JAPAN				
	H9-257811	10/3/97	JAPAN				

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Hiroyuki Fujita, et al. "Optical MEMS", IEICE Trans. Electron., Vol. E83-C, No. 9, September 2000

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	<b>L.Y. Lin, et al., "High-Density Micromachined Polygon Optical Crossconnects Exploiting Network Connection-Symmetry"</b> p.1425-1427, 1998		
	<b>R. Jebens, et al. "Microactuators for Aligning Optical Fibers"</b> Sensors and Actuators Vol. 20, p. 65-73, 1989		
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